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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/965,825	i e	0/01/2001	Nicole Dusch	213545US0X	3991
22850	7590	12/01/2004		EXAMINER	
-	-	ICCLELLAND	RAMIREZ, DELIA M		
1940 DUKE STREET ALEXANDRIA, VA 22314		22314		ART UNIT	PAPER NUMBER
				1652	

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.	Applicant(s)	
09/965,825	DUSCH ET AL.	
Examiner	Art Unit	
Delia M. Ramirez	1652	

THE REPLY FILED 12 November 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

Examination (RCE) in compliance with 37 CFR 1.114.
PERIOD FOR REPLY [check either a) or b)]
a) The period for reply expires 3 months from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP
706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. The proposed amendment(s) will not be entered because:
(a) Ithey raise new issues that would require further consideration and/or search (see NOTE below);
(b) ☐ they raise the issue of new matter (see Note below);
(c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
(d) They present additional claims without canceling a corresponding number of finally rejected claims.
NOTE: see attached.
3. Applicant's reply has overcome the following rejection(s):
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ request for reconsideration has been considered but does NOT place the application in condition for allowance because: <u>see attached</u> .
6. The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
The status of the claim(s) is (or will be) as follows:
Claim(s) allowed: none.
Claim(s) objected to: none.
Claim(s) rejected: <u>32-58</u> .
Claim(s) withdrawn from consideration: none.
8. ☐ The drawing correction filed on is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s)
10. Other:

⁻⁻ The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

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ADVISORY ACTION

- 1. Claims 32-58 are pending.
- 2. The request for entering amendments to the specification and claims 32, 51, 56-58, adding claims 59-60, cancellation of claims 33-45, 52 and remarks filed on 11/12/2004 under 37 CFR 1.116 in reply to the Final Action mailed on 6/16/2004 and Advisory Action mailed on 10/19/2004 are acknowledged. The proposed amendments to the claims will not be entered. While amendments to the claims seem to overcome the objections, the 35 USC 112, second paragraph rejections, and some of the grounds of rejections previously applied in regard to 35 USC 112, first paragraph, the proposed amendments to the claims raise new issues which would require further consideration as discussed below.
- 3. Proposed amended claims 32, 51, 56-58, claims 34, 46-50, 52-55, new claims 59-60, and claims 46-50, 53-55 would be rejected under 35 USC 112, first paragraph, because the specification while being enabling for (1) a process for the production of D-pantothenic acid in C. glutamicum by inactivating the C. glutamicum poxB gene or a Coryneform bacterium wherein the wild-type poxB gene comprises SEQ ID NO:1 or SEQ ID NO:4, wherein said inactivation occurs by a deletion in the poxB gene, and (2) a process as described above, wherein at least one of the C. glutamicum panB, panC, ilvC, or ilvD gene products are increased by overexpressing the panB, panC, ilvC, or ilvD genes by using a strong promoter, does not reasonably provide enablement for a process for the production of D-pantothenic acid in Coryneform bacteria modified such that the poxB gene is deleted, wherein the poxB gene in the Coryneform bacteria prior to being modified hybridizes to the full complement of the polynucleotides of SEQ ID NO: 1 or 4 at conditions requiring washing in 5xSSC at a temperature of from 50-68 C. The specification does not enable any person skill in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

Proposed amended claims 32, 51, 56-58, claims 46-50, 53-55, and new claims 58-60 are directed in part to a process for the production of D-pantothenic acid in Coryneform bacteria modified such that

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the poxB gene is deleted, wherein the poxB gene in the Coryneform bacteria prior to being modified hybridizes to the full complement of the polynucleotides of SEQ ID NO: 1 or 4 at conditions which require washing in 5xSSC at a temperature of from 50-68 C. The conditions recited are those of high salt and low temperature (with the exception of 68 C). Therefore, polynucleotides having low structural homology to the polynucleotides of SEO ID NO:1 or 4 would be included in the genus recited. The specification fails to disclose the critical structural elements required in any Coryneform bacteria poxB gene or the structural elements in the polynucleotides of SEQ ID NO: 1 or 4 required in any Coryneform bacteria poxB gene. As indicated in the Final Action mailed on 6/16/2004, the art teaches the unpredictability of isolating polynucleotides encoding polypeptides of similar function based solely on structural homology. See, particularly, the teachings of Witkowski et al. and Seffernick et al., wherein even structural homologs having more than 95% sequence identity were found to have different function. Furthermore, it is reiterated herein that the claimed method requires a genus of modifications to the recited genes such that their expression is reduced or enhanced which are unknown. Therefore, one cannot reasonably conclude that the full scope of the claimed invention is enabled by the instant disclosure.

- 4. The rejections previously applied are, therefore, maintained for the reasons of record in view of the non-entry of the proposed amendments.
- 5. For purposes of Appeal, the status of the claims is as follows:

Claim(s) allowed: NONE

Claims(s) objected to: NONE

Claim(s) rejected: 32-58

- 6. Claim(s) withdrawn from consideration: NONE
- 7. Certain papers related to this application may be submitted to Art Unit 1652 by facsimile transmission. The FAX number is (703) 872-9306. The faxing of such papers must conform with the

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notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If Applicant submits a paper by FAX, the original copy should be retained by Applicant or Applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office.

- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PMR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delia M. Ramirez whose telephone number is (571) 272-0938. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy can be reached on (571) 272-0928. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Delia M. Ramirez, Ph.D. Patent Examiner Art Unit 1652

DR November 27, 2004

REBECCA E. PROUTY
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